

## Refine Search

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### Search Results -

Terms	Documents
L3 and 562/\$	48

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**Database:** US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**   

  

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### Search History

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**DATE:** Sunday, April 29, 2007    [Purge Queries](#)    [Printable Copy](#)    [Create Case](#)

Set	Name	Query	Hit	Set
			Count	Name
	side by side			result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ				
<u>L4</u>	L3 and 562/\$		48	<u>L4</u>
<u>L3</u>	L2 and oxid\$8 and (co or cobalt) and( mn or manganese) and ( zirconium or zr )and ( br or bromine )		88	<u>L3</u>
<u>L2</u>	trimellitic acid and pseudocumene		329	<u>L2</u>
DB=USPT; PLUR=YES; OP=ADJ				
<u>L1</u>	4398040.pn.		1	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

First Hit	Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS					

Search Results - Record(s) 1 through 10 of 48 returned.

1. Document ID: US 20060281629 A1

L4: Entry 1 of 48

File: PGPB

Dec 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060281629

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060281629 A1

TITLE: Catalyst comprising N-substituted cyclic imide compound and process for producing organic compound using the catalyst

PUBLICATION-DATE: December 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ishii; Yasutaka	Osaka		JP
Nakano; Tatsuya	Himeji-shi		JP
Iwahama; Takahiro	Himeji-shi		JP
Hirai; Naruhisa	Himeji-shi		JP

US-CL-CURRENT: 502/167; 562/415, 562/599

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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2. Document ID: US 20050215815 A1

L4: Entry 2 of 48

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050215815

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050215815 A1

TITLE: Method of producing trimellitic acid

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Roh, Hang-Duk	Gyeonggi		KR
Lee, Jong-In	Gyeonggi		KR
Shim, Hyun-Sup	Seoul		KR
Kim, Byung-Hui	Gyeonggi		KR

Cho, Jun-Sang	Gyeonggi	KR
Lee, Yoon-Seo	Gyeonggi	KR

US-CL-CURRENT: 562/412

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KINIC</a>	<a href="#">Drawn D.</a>
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 3. Document ID: US 20050137420 A1

L4: Entry 3 of 48

File: PGPB

Jun 23, 2005

PGPUB-DOCUMENT-NUMBER: 20050137420

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050137420 A1

TITLE: Anthracene and other polycyclic aromatics as activators in the oxidation of aromatic hydrocarbons

PUBLICATION-DATE: June 23, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schammel, Wayne P.	Plainfield	IL	US
Adamian, Victor A.	Naperville	IL	US
Viswanath, Venamandra	Naperville	IL	US
Zakharov, Igor V.	Moscow		RU

US-CL-CURRENT: 562/416

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KINIC</a>	<a href="#">Drawn D.</a>
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 4. Document ID: US 20040054219 A1

L4: Entry 4 of 48

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054219

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040054219 A1

TITLE: Process for producing trimellitic acid

PUBLICATION-DATE: March 18, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nagao, Shinichi	Kurashiki-shi		JP
Kuzuhara, Ikutaro	Kurashiki-shi		JP
Ogawa, Hiroshi	Kurashiki-shi		JP

US-CL-CURRENT: 562/413

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn D</a>
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 5. Document ID: US 20030208091 A1

L4: Entry 5 of 48

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030208091

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030208091 A1

TITLE: Process for producing pyromellitic acid

PUBLICATION-DATE: November 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tanaka, Kazuo	Kurashiki		JP
Ogawa, Hiroshi	Kurashiki		JP
Maruki, Ikutaro	Kurashiki		JP
Okoshi, Atsushi	Kurashiki		JP

US-CL-CURRENT: 562/412; 562/421

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn D</a>
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 6. Document ID: US 20020151745 A1

L4: Entry 6 of 48

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151745

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151745 A1

TITLE: Process for producing pyromellitic acid

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tanaka, Kazuo	Kurashiki		JP
Ogawa, Hiroshi	Kurashiki		JP
Maruki, Ikutaro	Kurashiki		JP
Okoshi, Atsushi	Kurashiki		JP

US-CL-CURRENT: 562/421

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn D</a>
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7. Document ID: US 20010041811 A1

L4: Entry 7 of 48

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041811  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010041811 A1

TITLE: Production of high purity aromatic carboxylic acid by oxidation in benzoic acid and water solvent

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sikkenga, David L.	Wheaton	IL	US
Pandya, Alpen K.	Naperville	IL	US
Zaenger, Ian C.	Naperville	IL	US
Abrams, Kenneth J.	Naperville	IL	US
Bartos, Thomas M.	Naperville	IL	US

US-CL-CURRENT: 562/416; 562/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D
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 8. Document ID: US 7115541 B2

L4: Entry 8 of 48

File: USPT

Oct 3, 2006

US-PAT-NO: 7115541  
DOCUMENT-IDENTIFIER: US 7115541 B2

TITLE: Catalyst comprising n-substituted cyclic imides and processes for preparing organic compounds with the catalyst

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030013603 A1	January 16, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D
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 9. Document ID: US 6888023 B2

L4: Entry 9 of 48

File: USPT

May 3, 2005

US-PAT-NO: 6888023  
DOCUMENT-IDENTIFIER: US 6888023 B2

TITLE: Process for producing pyromellitic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

10. Document ID: US 6835852 B2

L4: Entry 10 of 48

File: USPT

Dec 28, 2004

US-PAT-NO: 6835852

DOCUMENT-IDENTIFIER: US 6835852 B2

TITLE: Process for producing trimellitic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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11. Document ID: US 6696604 B2

L4: Entry 11 of 48

File: USPT

Feb 24, 2004

US-PAT-NO: 6696604

DOCUMENT-IDENTIFIER: US 6696604 B2

TITLE: Addition of mineral acids or salts thereof to a TMA production process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Separate	Attachments	Claims	KMC	Drawn D
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12. Document ID: US 6562997 B2

L4: Entry 12 of 48

File: USPT

May 13, 2003

US-PAT-NO: 6562997

DOCUMENT-IDENTIFIER: US 6562997 B2

TITLE: Production of high purity aromatic carboxylic acid by oxidation in benzoic acid and water solvent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Separate	Attachments	Claims	KMC	Drawn D
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13. Document ID: US 6194607 B1

L4: Entry 13 of 48

File: USPT

Feb 27, 2001

US-PAT-NO: 6194607

DOCUMENT-IDENTIFIER: US 6194607 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic hydrocarbons or partially oxidized intermediates thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Separate	Attachments	Claims	KMC	Drawn D
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14. Document ID: US 6180822 B1

L4: Entry 14 of 48

File: USPT

Jan 30, 2001

US-PAT-NO: 6180822

DOCUMENT-IDENTIFIER: US 6180822 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with carbon dioxide containing gas

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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15. Document ID: US 6175038 B1

L4: Entry 15 of 48

File: USPT

Jan 16, 2001

US-PAT-NO: 6175038

DOCUMENT-IDENTIFIER: US 6175038 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with oxygen-enriched gas

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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16. Document ID: US 5895820 A

L4: Entry 16 of 48

File: USPT

Apr 20, 1999

US-PAT-NO: 5895820

DOCUMENT-IDENTIFIER: US 5895820 A

TITLE: Process for the production of trimellitic acid and process for the production of trimellitic acid anhydride

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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17. Document ID: US 5880313 A

L4: Entry 17 of 48

File: USPT

Mar 9, 1999

US-PAT-NO: 5880313

DOCUMENT-IDENTIFIER: US 5880313 A

TITLE: Process for producing aromatic carboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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18. Document ID: US 5250724 A

L4: Entry 18 of 48

File: USPT

Oct 5, 1993

US-PAT-NO: 5250724

DOCUMENT-IDENTIFIER: US 5250724 A

TITLE: Process for the preparation of trimellitic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequencers](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

19. Document ID: US 5112992 A

L4: Entry 19 of 48

File: USPT

May 12, 1992

US-PAT-NO: 5112992

DOCUMENT-IDENTIFIER: US 5112992 A

TITLE: Production of polycarboxylic acids with hafnium-activated cobalt catalyst

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequencers](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

20. Document ID: US 5095143 A

L4: Entry 20 of 48

File: USPT

Mar 10, 1992

US-PAT-NO: 5095143

DOCUMENT-IDENTIFIER: US 5095143 A

\*\* See image for Certificate of Correction \*\*

TITLE: Method for increasing the efficiency of liquid phase oxidation reactions

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequencers](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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21. Document ID: US 5095141 A

L4: Entry 21 of 48

File: USPT

Mar 10, 1992

US-PAT-NO: 5095141

DOCUMENT-IDENTIFIER: US 5095141 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for pseudocumene oxidation to trimellitic acid with mother liquor recycle

Full	Title	Citation	Front	Review	Classification	Date	Reference	<input checked="" type="checkbox"/> <u>Sequencies</u>	<input checked="" type="checkbox"/> <u>Attachments</u>	Claims	KMC	Drawn D
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22. Document ID: US 5081290 A

L4: Entry 22 of 48

File: USPT

Jan 14, 1992

US-PAT-NO: 5081290

DOCUMENT-IDENTIFIER: US 5081290 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for making aromatic polycarboxylic acids and oxidation catalyst system

Full	Title	Citation	Front	Review	Classification	Date	Reference	<input checked="" type="checkbox"/> <u>Sequencies</u>	<input checked="" type="checkbox"/> <u>Attachments</u>	Claims	KMC	Drawn D
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23. Document ID: US 5068406 A

L4: Entry 23 of 48

File: USPT

Nov 26, 1991

US-PAT-NO: 5068406

DOCUMENT-IDENTIFIER: US 5068406 A

TITLE: Compartmented oxidation method

Full	Title	Citation	Front	Review	Classification	Date	Reference	<input checked="" type="checkbox"/> <u>Sequencies</u>	<input checked="" type="checkbox"/> <u>Attachments</u>	Claims	KMC	Drawn D
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24. Document ID: US 5041633 A

L4: Entry 24 of 48

File: USPT

Aug 20, 1991

US-PAT-NO: 5041633

DOCUMENT-IDENTIFIER: US 5041633 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Process for the production of an aromatic polycarboxylic acid

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D.](#)

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25. Document ID: US 5004830 A

L4: Entry 25 of 48

File: USPT

Apr 2, 1991

US-PAT-NO: 5004830

DOCUMENT-IDENTIFIER: US 5004830 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for oxidation of alkyl aromatic compounds

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D.](#)

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26. Document ID: US 4992580 A

L4: Entry 26 of 48

File: USPT

Feb 12, 1991

US-PAT-NO: 4992580

DOCUMENT-IDENTIFIER: US 4992580 A

TITLE: Production of polycarboxylic acids with a molybdenum-activated cobalt catalyst

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D.](#)

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27. Document ID: US 4992579 A

L4: Entry 27 of 48

File: USPT

Feb 12, 1991

US-PAT-NO: 4992579

DOCUMENT-IDENTIFIER: US 4992579 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for the production of trimellitic acid

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D.](#)

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28. Document ID: US 4948921 A

L4: Entry 28 of 48

File: USPT

Aug 14, 1990

US-PAT-NO: 4948921

DOCUMENT-IDENTIFIER: US 4948921 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for the production and recovery of trimellitic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

29. Document ID: US 4906772 A

L4: Entry 29 of 48

File: USPT

Mar 6, 1990

US-PAT-NO: 4906772

DOCUMENT-IDENTIFIER: US 4906772 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for production of polycarboxylic aromatic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

30. Document ID: US 4895978 A

L4: Entry 30 of 48

File: USPT

Jan 23, 1990

US-PAT-NO: 4895978

DOCUMENT-IDENTIFIER: US 4895978 A

TITLE: Oxidation of pseudocumene to trimellitic acid enhanced by low gram atom ratios of zirconium to transition metal in oxidation catalyst system

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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31. Document ID: US 4876386 A

L4: Entry 31 of 48

File: USPT

Oct 24, 1989

US-PAT-NO: 4876386

DOCUMENT-IDENTIFIER: US 4876386 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for the oxidation of di- or trimethylbenzenes in the presence of cobalt and manganese from oxidation residue incinerator ash

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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32. Document ID: US 4876385 A

L4: Entry 32 of 48

File: USPT

Oct 24, 1989

US-PAT-NO: 4876385

DOCUMENT-IDENTIFIER: US 4876385 A

\*\* See image for Certificate of Correction \*\*

TITLE: Batch or semicontinuous pseudocumene oxidation and catalyst recovery and recycle

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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33. Document ID: US 4845275 A

L4: Entry 33 of 48

File: USPT

Jul 4, 1989

US-PAT-NO: 4845275

DOCUMENT-IDENTIFIER: US 4845275 A

\*\* See image for Certificate of Correction \*\*

TITLE: Trimellitic acid process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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34. Document ID: US 4845274 A

L4: Entry 34 of 48

File: USPT

Jul 4, 1989

US-PAT-NO: 4845274  
DOCUMENT-IDENTIFIER: US 4845274 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Oxidation of polyalkylaromatics

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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35. Document ID: US 4816601 A

L4: Entry 35 of 48

File: USPT

Mar 28, 1989

US-PAT-NO: 4816601  
DOCUMENT-IDENTIFIER: US 4816601 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Process for the manufacture of trimellitic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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36. Document ID: US 4786753 A

L4: Entry 36 of 48

File: USPT

Nov 22, 1988

US-PAT-NO: 4786753  
DOCUMENT-IDENTIFIER: US 4786753 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Oxidation process for the manufacture of aromatic acids from alkylaromatic compounds

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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37. Document ID: US 4786752 A

L4: Entry 37 of 48

File: USPT

Nov 22, 1988

US-PAT-NO: 4786752  
DOCUMENT-IDENTIFIER: US 4786752 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Catalyst recovery and recycle of catalysts in pseudodocument oxidation process

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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38. Document ID: US 4786621 A

L4: Entry 38 of 48

File: USPT

Nov 22, 1988

US-PAT-NO: 4786621

DOCUMENT-IDENTIFIER: US 4786621 A

**\*\* See image for Certificate of Correction \*\***TITLE: Process for recovery of cobalt and manganese for oxidation residue  
incinerator ash[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [General](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#) 39. Document ID: US 4769488 A

L4: Entry 39 of 48

File: USPT

Sep 6, 1988

US-PAT-NO: 4769488

DOCUMENT-IDENTIFIER: US 4769488 A

**\*\* See image for Certificate of Correction \*\***TITLE: Batch or semicontinuous pseudocumene oxidation and catalyst recovery and  
recycle[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [General](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#) 40. Document ID: US 4764639 A

L4: Entry 40 of 48

File: USPT

Aug 16, 1988

US-PAT-NO: 4764639

DOCUMENT-IDENTIFIER: US 4764639 A

**\*\* See image for Certificate of Correction \*\***TITLE: Process for the production of trimellitic acid[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [General](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

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41. Document ID: US 4755622 A

L4: Entry 41 of 48

File: USPT

Jul 5, 1988

US-PAT-NO: 4755622

DOCUMENT-IDENTIFIER: US 4755622 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for the production of trimellitic acid and pyromellitic acid by staged bromine addition in an oxidation of polyalkylaromatics

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

42. Document ID: US 4754062 A

L4: Entry 42 of 48

File: USPT

Jun 28, 1988

US-PAT-NO: 4754062

DOCUMENT-IDENTIFIER: US 4754062 A

TITLE: Iron-enhanced selectivity of heavy metal-bromine catalysis in the oxidation of polyalkylaromatics

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

43. Document ID: US 4719311 A

L4: Entry 43 of 48

File: USPT

Jan 12, 1988

US-PAT-NO: 4719311

DOCUMENT-IDENTIFIER: US 4719311 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for the production of aromatic polycarboxylic acids

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

44. Document ID: US 4500730 A

L4: Entry 44 of 48

File: USPT

Feb 19, 1985

US-PAT-NO: 4500730

DOCUMENT-IDENTIFIER: US 4500730 A

TITLE: Process for producing aromatic polycarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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45. Document ID: US 4398040 A

L4: Entry 45 of 48

File: USPT

Aug 9, 1983

US-PAT-NO: 4398040

DOCUMENT-IDENTIFIER: US 4398040 A

TITLE: Process for producing trimellitic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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46. Document ID: US 4346232 A

L4: Entry 46 of 48

File: USPT

Aug 24, 1982

US-PAT-NO: 4346232

DOCUMENT-IDENTIFIER: US 4346232 A

TITLE: Process for producing aromatic polycarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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47. Document ID: US 4322549 A

L4: Entry 47 of 48

File: USPT

Mar 30, 1982

US-PAT-NO: 4322549

DOCUMENT-IDENTIFIER: US 4322549 A

\*\* See image for Certificate of Correction \*\*

TITLE: Oxidation of di- and trimethyl aromatic hydrocarbons having ortho-oriented methyl groups in liquid phthalic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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48. Document ID: US 4233227 A

L4: Entry 48 of 48

File: USPT

Nov 11, 1980

US-PAT-NO: 4233227

DOCUMENT-IDENTIFIER: US 4233227 A

TITLE: Phthalic anhydride formation and separation

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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